

# Work Order ID 128410

Friday, January 16, 2015 2:36:29 PM

**\*128410\***

Page 1

Item ID: D412-702-317 Accept **\*N900040100\*** Setup Start **\*NS1\***  
Revision ID: Stop **\*NS2\***  
Item Name: Harness Assembly  
Start Date: 1/13/15 Start Qty: 1.00 **\*1\*** Cust Item ID:  
Required Date: 1/16/15 Req'd Qty: 1.00 **\*1\*** Customer:  
Reference:

Approvals: Process Plan: MCS Date: 15-01-19 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

| Sequence ID/<br>Work Center ID | Operation<br>Description | Set Up/<br>Run Hours | Tool ID | Tool # | Plan<br>Code | Accept<br>Qty | Reject<br>Qty | Reject<br>Number | Insp.<br>Stamp |
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|
|--------------------------------|--------------------------|----------------------|---------|--------|--------------|---------------|---------------|------------------|----------------|

| Draw Nbr | Revision Nbr |
|----------|--------------|
| DSI 9511 | A            |

100 0.00  
**\*100\***  
Small Fab Memo 0.00  
Small Fab Assemble as per dwg ICA D412-702 p.49

110 0.00  
**\*110\***  
QC Memo 0.00  
Quality Control

120 0.00  
**\*120\***  
Packaging Memo 0.00  
Packaging

Identify with P/N & CHG# and pack for shipping as per PPP D412-702-317  
CHG001  
Location: 8471  
PPP Rev: \_\_\_\_\_

IX 15/02/27 DAS 36 9-89  
1 DAS 38 9-89  
FEB 27 2015  
1 MAR 02 2015 DAS 38 9-89

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence<br><br><input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other _____<br>_____<br>_____<br>_____ |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Work Order ID 128410**

Friday, January 16, 2015 2:36:29 PM

**\*128410\***

Page 2

Item ID: D412-702-317

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Harness Assembly

Start Date: 1/13/15 Start Qty: 1.00 **\*1\***

Cust Item ID:

Required Date: 1/16/15 Req'd Qty: 1.00 **\*1\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

QC21 - Final Inspection - Work Order Release

0.00

**\*130\***

QC

Memo

0.00

Quality Control

ML5 15-03-03

AS 3-3

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

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| Doc/Data <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre <input type="checkbox"/>  |      |      |     |                                                     |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup <input type="checkbox"/>  |      |      |     |                                                     |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport <input type="checkbox"/>     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
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# Picklist Print

Friday, January 16, 2015 2:36:29 PM

Page 1

Work Order ID: 128410

**\*128410\***

Parent Item: D412-702-317

**\*D412-702-317\***

Parent Item Name: Harness Assembly

Start Date: 1/13/15

Required Date: 1/16/15

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP Rev:A new issue DD 10.04.30 verified:EC

| Component Item ID/<br>Item Name                     | Replacement<br>Item ID | Mfg/<br>Purch | Bin<br>Item | Primary<br>Location | Last<br>Location | Route<br>Seq ID | Unit of<br>Measure | Qty on<br>Hand | Qty per Kit | Total<br>Qty    | Qty<br>Issued | Date<br>Issued | Status            |
|-----------------------------------------------------|------------------------|---------------|-------------|---------------------|------------------|-----------------|--------------------|----------------|-------------|-----------------|---------------|----------------|-------------------|
| D3573-5<br><b>*D3573-5*</b><br>Adapter              |                        | Manufactured  | No          |                     |                  | 100             | Each               | 6.0000         | 1           | 1               |               | 15/02/27       | DAS<br>36<br>9-89 |
|                                                     |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                |                   |
|                                                     |                        |               |             | GA                  |                  |                 |                    | 6              |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | 122635           |                 |                    | 5              |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | 31863            |                 |                    | 1              |             |                 |               |                |                   |
| D4088-041<br><b>*D4088-041*</b><br>Shoulder Harness |                        | Manufactured  | No          |                     |                  | 100             | Each               | 0.0000         | 1           | 1               |               | 15/02/27       | DAS<br>36<br>9-89 |
| MS24693-S272<br><b>*MS24693-S272*</b><br>SCREW      |                        | Purchased     | No          |                     |                  | 100             | Each               | 109.0000       | 4           | 4               |               | 15/02/27       | DAS<br>36<br>9-89 |
|                                                     |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                |                   |
|                                                     |                        |               |             | CA                  |                  |                 |                    | 41             |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | M129682          |                 |                    | 41             |             |                 |               |                |                   |
|                                                     |                        |               |             | GA                  |                  |                 |                    | 65             |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | M126190          |                 |                    | 65             |             |                 |               |                |                   |
|                                                     |                        |               |             | ST292               |                  |                 |                    | 3              |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | M126119          |                 |                    | 3              |             |                 |               |                |                   |
| NAS1149D0316J<br><b>*NAS1149D0316.J*</b><br>Washer  |                        | Purchased     | No          |                     |                  | 100             | Each               | 576.0000       | 4           | 4               |               | 15/02/27       | DAS<br>36<br>9-89 |
|                                                     |                        |               |             | <u>Location</u>     |                  |                 |                    | <u>Loc Qty</u> |             | <u>Loc Code</u> |               |                |                   |
|                                                     |                        |               |             | ST270               |                  |                 |                    | 576            |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | 122151           |                 |                    | 188            |             |                 |               |                |                   |
|                                                     |                        |               |             |                     | M127956          |                 |                    | 388            |             |                 |               |                |                   |

Q  
AN960SD10LL  
M9600 (4x)

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

| Root Cause                             | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|----------------------------------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design <input type="checkbox"/>        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling <input type="checkbox"/> |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre <input type="checkbox"/>  |      |      |     |                                                     |                   |                    |             |              |              |
| Material <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup <input type="checkbox"/>  |      |      |     |                                                     |                   |                    |             |              |              |
| Process <input type="checkbox"/>       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Training <input type="checkbox"/>      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport <input type="checkbox"/>     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved <input type="checkbox"/>    |      |      |     |                                                     |                   |                    |             |              |              |

### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Picklist Print

Page 2

Friday, January 16, 2015 2:36:29 PM

Work Order ID: 128410

**\*128410\***

Parent Item: D412-702-317

**\*D412-702-317\***

Parent Item Name: Harness Assembly

Start Date: 1/13/15

Required Date: 1/16/15

Start Qty: 1.00

Required Qty: 1.00

MS21042L3

Purchased

No

100

Each

2,045.000

4

4

**\*MS21042L3\***

Nut

**\*\***

15/02/27

DAS  
36  
9-89

Location

Loc Qty

Loc Code

FP001

447

M130922

447

ST305

1595

M130799

31

M131264

1564

ST307

3

123900

3

M131317  
(4x)

Friday, January 16, 2015 2:36:29 PM

Shop Packet Print

Page 2

DQA: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: \_\_\_\_\_ Date: \_\_\_\_\_

Work Order update only ☐

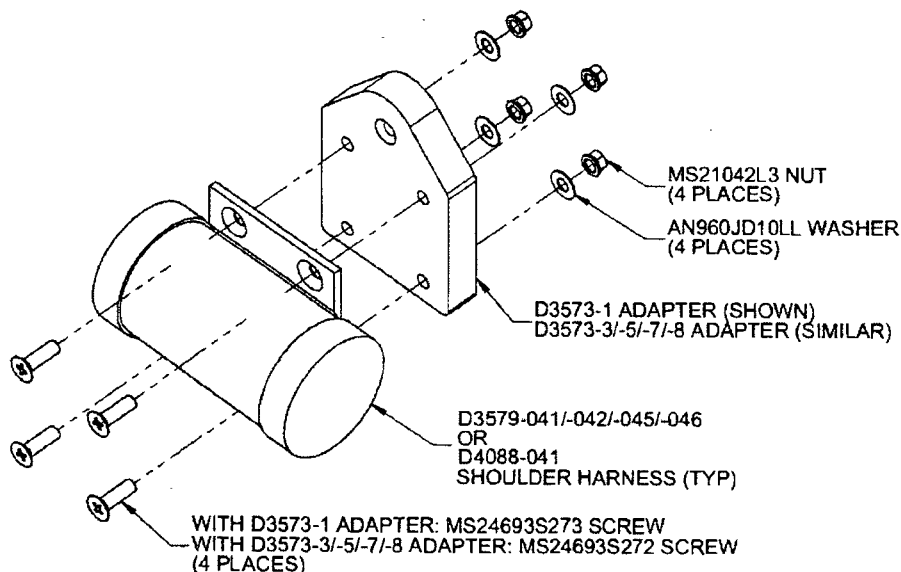
|                                                              |                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
|--------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------------|----------------------------------|----------------------------------------|------------------------------------|----------------------------------------------|--------------------------------|------------------------------------|------------------------------------|-----------------------------------|--|
| Work Order: _____<br><br>Part No. _____<br><br>NCR No. _____ | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/><br>Suspected Unapproved <input type="checkbox"/> | <b>AGAINST DEPARTMENT/PROCESS</b><br><br><table style="width: 100%;"> <tr> <td>Skid-tube <input type="checkbox"/></td> <td>Crosstube <input type="checkbox"/></td> <td>Water Jet <input type="checkbox"/></td> <td>Engineering <input type="checkbox"/></td> </tr> <tr> <td>Machining <input type="checkbox"/></td> <td>Small Fab <input type="checkbox"/></td> <td>Prod. Eng. Coord. <input type="checkbox"/></td> <td>Quality <input type="checkbox"/></td> </tr> <tr> <td>Thermoforming <input type="checkbox"/></td> <td>Finishing <input type="checkbox"/></td> <td>Rec/Store/Packaging <input type="checkbox"/></td> <td>Other <input type="checkbox"/></td> </tr> <tr> <td>Large Fab <input type="checkbox"/></td> <td>Composite <input type="checkbox"/></td> <td>Supplier <input type="checkbox"/></td> <td></td> </tr> </table> | Skid-tube <input type="checkbox"/>   | Crosstube <input type="checkbox"/> | Water Jet <input type="checkbox"/> | Engineering <input type="checkbox"/> | Machining <input type="checkbox"/> | Small Fab <input type="checkbox"/> | Prod. Eng. Coord. <input type="checkbox"/> | Quality <input type="checkbox"/> | Thermoforming <input type="checkbox"/> | Finishing <input type="checkbox"/> | Rec/Store/Packaging <input type="checkbox"/> | Other <input type="checkbox"/> | Large Fab <input type="checkbox"/> | Composite <input type="checkbox"/> | Supplier <input type="checkbox"/> |  |
| Skid-tube <input type="checkbox"/>                           | Crosstube <input type="checkbox"/>                                                                                                                                                 | Water Jet <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Engineering <input type="checkbox"/> |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Machining <input type="checkbox"/>                           | Small Fab <input type="checkbox"/>                                                                                                                                                 | Prod. Eng. Coord. <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Quality <input type="checkbox"/>     |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Thermoforming <input type="checkbox"/>                       | Finishing <input type="checkbox"/>                                                                                                                                                 | Rec/Store/Packaging <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Other <input type="checkbox"/>       |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |
| Large Fab <input type="checkbox"/>                           | Composite <input type="checkbox"/>                                                                                                                                                 | Supplier <input type="checkbox"/>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                      |                                    |                                    |                                      |                                    |                                    |                                            |                                  |                                        |                                    |                                              |                                |                                    |                                    |                                   |  |

| Root Cause    | Date | Step | Qty | Description of work order update or non-conformance | Initial Chief Eng | Action Description | Sign & Date | Verification | QC Inspector |
|---------------|------|------|-----|-----------------------------------------------------|-------------------|--------------------|-------------|--------------|--------------|
| Design        |      |      |     |                                                     |                   |                    |             |              |              |
| Doc/Data      |      |      |     |                                                     |                   |                    |             |              |              |
| Equip/Tooling |      |      |     |                                                     |                   |                    |             |              |              |
| Handling/Pre  |      |      |     |                                                     |                   |                    |             |              |              |
| Material      |      |      |     |                                                     |                   |                    |             |              |              |
| Operator      |      |      |     |                                                     |                   |                    |             |              |              |
| Offset/Setup  |      |      |     |                                                     |                   |                    |             |              |              |
| Process       |      |      |     |                                                     |                   |                    |             |              |              |
| Supplier      |      |      |     |                                                     |                   |                    |             |              |              |
| Training      |      |      |     |                                                     |                   |                    |             |              |              |
| Transport     |      |      |     |                                                     |                   |                    |             |              |              |
| Unapproved    |      |      |     |                                                     |                   |                    |             |              |              |

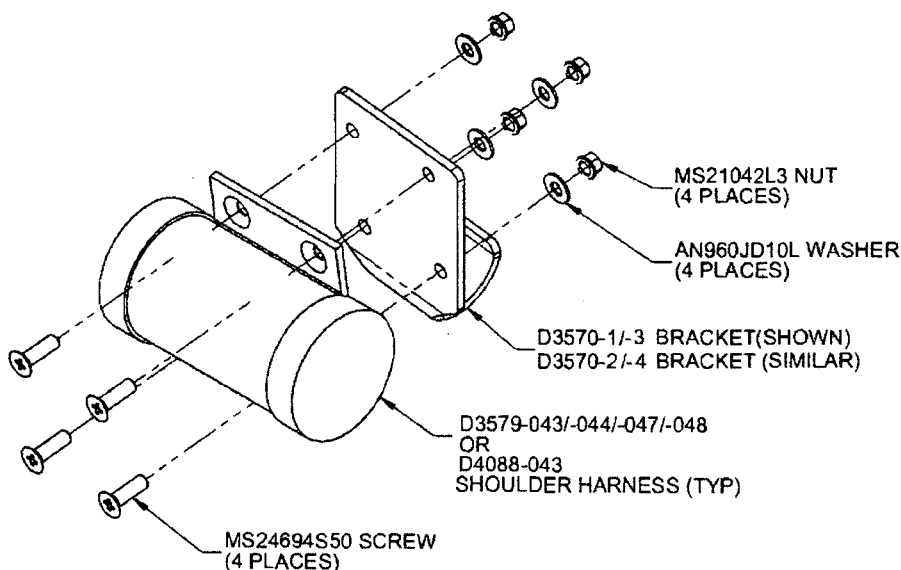
### FAULT CATEGORY

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Landing Gear</b><br><input type="checkbox"/> Bending<br><input type="checkbox"/> Centre Not Concentric<br><input type="checkbox"/> Cracks<br><input type="checkbox"/> Crimp/Kink/Ripple/Wave<br><input type="checkbox"/> Cuffs<br><input type="checkbox"/> Crushing<br><input type="checkbox"/> Heat Treat<br><input type="checkbox"/> Inspection Strip in Tube<br><input type="checkbox"/> Marks/Chatter<br><input type="checkbox"/> Turning Sequence<br><input type="checkbox"/> Wave/Twist in Tube | <b>General</b><br><input type="checkbox"/> Bend<br><input type="checkbox"/> BOM/Route<br><input type="checkbox"/> Broken/Damage/Defect<br><input type="checkbox"/> Burrs<br><input type="checkbox"/> Contamination<br><input type="checkbox"/> Countersink<br><input type="checkbox"/> Cut Too Short<br><input type="checkbox"/> Drawing<br><input type="checkbox"/> Drill Holes<br><input type="checkbox"/> Finish<br><input type="checkbox"/> Fit/Function | <input type="checkbox"/> Folio/Program<br><input type="checkbox"/> Grain<br><input type="checkbox"/> Hardware<br><input type="checkbox"/> Inspection Incomplete/Unqualified<br><input type="checkbox"/> Instructions Incomplete/Unclear<br><input type="checkbox"/> Misaligned/off center<br><input type="checkbox"/> Mislabeled<br><input type="checkbox"/> Misread<br><input type="checkbox"/> Off-set<br><input type="checkbox"/> Out of Calibration<br><input type="checkbox"/> Out of Sequence | <input type="checkbox"/> Outside Dimensions<br><input type="checkbox"/> Over/Under tolerance<br><input type="checkbox"/> Part Incorrect<br><input type="checkbox"/> Part Lost/Missing<br><input type="checkbox"/> Part Moved<br><input type="checkbox"/> Positioned Wrong<br><input type="checkbox"/> Power Loss/Surge<br><br><input type="checkbox"/> Pressure/Forced<br><input type="checkbox"/> Set-up<br><input type="checkbox"/> Temperature/Cure<br><input type="checkbox"/> Weld<br><input type="checkbox"/> Wrong Stock Pulled<br><br><input type="checkbox"/> Other |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|





**DETAIL 'K' D412-702-101A/-103A/-105A/-107A/-109A/-115A/-117A AND  
D412-702-101B/-103B/-105B/-107B/-109B/-115B/-117B OR -301/-303/-305/-  
307/-309/-315/-317 HARNESS ASSEMBLIES**



**DETAIL 'L' D412-702-111A/-111B/-113A/-113B OR -311/-313/-321/-323 HARNESS ASSEMBLIES**

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25-00-00

Revision: 4

SHOPEX  
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SUBJECT TO  
W/O  
NO-128410MJS  
1501-19

# DART SERVICE INSTRUCTION

TO AMEND INSTALLATION INSTRUCTIONS IIN-D412-702 REV. E AND  
INSTRUCTIONS FOR CONTINUED AIRWORTHINESS ICA-D412-702 REV. 3  
REF TCCA STC SH04-7  
REF FAA STC SR01997NY  
REF EASA STC EASA.I.M.R.S.00710

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WITH NOTICE  
1501-19  
128410.MLS

This service instruction adds several kits equipped with improved inertia reels:

The Dart **D412-702-341** 13-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for all 13 passenger seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-041B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-343** 5-Man Forward Facing Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 5 forward facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-043B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-345** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 aft facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-045B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-347** 4-Man Shoulder Harness Kit provides 3-point harnesses with inertia reels and joined lap and shoulder belts for the 4 side facing seating positions in the aircraft cabin. The kit also contains hardpoints for securing the harnesses. The harnesses for this kit meet the requirements of TSO-C114 and replace the existing lap belts. This kit should be installed similar to the D412-702-047B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-349** 1-Man Shoulder Harness Kit provides a 3-point harness with an inertia reel and joined lap and shoulder belts for the center forward facing seating position in the aircraft cabin. The kit also contains hardpoints for securing the harness. The harness for this kit meets the requirements of TSO-C114 and replaces the existing lap belts. This kit should be installed similar to the D412-702-049B kit, as detailed in Table 1 of this service instruction.

The Dart **D412-702-351** 1-man 3-point shoulder harness kits are available for the outboard seats of the 5-man forward facing bench in Bell 205/212/214/412 model aircraft. The kit can be installed LH or RH. These kits should be installed similar to the D412-702-051B/052B kits, as detailed in Table 1 of this service instruction.

The Dart **D214-702-337** 5-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder belts for the 5-man aft facing seat installed in the Bell 214B/B1 model aircraft. This kit should be installed similar to the D214-702-037B kit, as detailed in Table 1 of this service instruction.

The Dart **D205-702-353** 4-Man Aft Facing Shoulder Harness Kit provides 3-point harnesses with inertial reels and joined lap and shoulder harnesses for the 4-man aft facing seat installed in the UH-1 model aircraft. This kit should be installed similar to the D205-702-053B kit, as detailed in Table 1 of this service instruction.

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

|            |             |                                                                                                                                                                                                                                                                         |              |
|------------|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| A          | NEW ISSUE   | CP                                                                                                                                                                                                                                                                      | 10.03.18     |
| REV.       | DESCRIPTION | BY                                                                                                                                                                                                                                                                      | DATE         |
| DESIGN     | 92          | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                |              |
| DRAWN      | 92          |                                                                                                                                                                                                                                                                         |              |
| CHECKED    | 1           | DRAWING NO.                                                                                                                                                                                                                                                             | REV. A       |
| MFG. APPR. | N/A         | DSI 9511                                                                                                                                                                                                                                                                | SHEET 1 OF 6 |
| APPROVED   | 140         | TITLE                                                                                                                                                                                                                                                                   | SCALE        |
| DE APPR.   | 14          | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                               | NTS          |
| DATE       | 10.03.18    | COPYRIGHT ©2010 BY DART AEROSPACE LTD<br>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD. |              |

## INSTALLATION

The Dart D412-702-3XX kits should be installed similar to the kits in Installation Instructions IIN-D412-702 Rev. E or Dart Service Instruction (DSI) listed below:

TABLE 1

| Part Number  | Description          | Install similar to:                                                                |
|--------------|----------------------|------------------------------------------------------------------------------------|
| D412-702-341 | Shoulder Harness Kit | D412-702-041B (IIN-D412-702, DSI 9408)                                             |
| D412-702-343 | Shoulder Harness Kit | D412-702-043B (IIN-D412-702, DSI 9453 [214], DSI 9408)                             |
| D412-702-345 | Shoulder Harness Kit | D412-702-045B (IIN-D412-702, DSI 9469)                                             |
| D412-702-347 | Shoulder Harness Kit | D412-702-047B (IIN-D412-702, DSI 9408)                                             |
| D412-702-349 | Shoulder Harness Kit | D412-702-049B (IIN-D412-702, DSI 9408)                                             |
| D412-702-351 | Shoulder Harness Kit | D412-702-051B (LH) (DSI 9397, DSI 9408)<br>D412-702-052B (RH) (DSI 9397, DSI 9408) |
| D214-702-337 | Shoulder Harness Kit | D214-702-037B (DSI 9454)                                                           |
| D205-702-353 | Shoulder Harness Kit | D205-702-053B (DSI 9460)                                                           |
| D412-702-301 | Harness Assembly     | D412-702-101B (IIN-D412-702)                                                       |
| D412-702-303 | Harness Assembly     | D412-702-103B (IIN-D412-702)                                                       |
| D412-702-305 | Harness Assembly     | D412-702-105B (IIN-D412-702)                                                       |
| D412-702-307 | Harness Assembly     | D412-702-107B (IIN-D412-702)                                                       |
| D412-702-309 | Harness Assembly     | D412-702-109B (IIN-D412-702)                                                       |
| D412-702-311 | Harness Assembly     | D412-702-111B (IIN-D412-702)                                                       |
| D412-702-313 | Harness Assembly     | D412-702-113B (IIN-D412-702)                                                       |
| D412-702-315 | Harness Assembly     | D412-702-115B (IIN-D412-702)                                                       |
| D412-702-317 | Harness Assembly     | D412-702-117B (IIN-D412-702)                                                       |
| D412-702-319 | Harness Assembly     | D412-702-119B (DSI 9454)                                                           |
| D412-702-321 | Harness Assembly     | D412-702-121B (DSI 9454, DSI 9469)                                                 |
| D412-702-323 | Harness Assembly     | D412-702-123B (DSI 9454, DSI 9469)                                                 |

CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

APPROVED  
BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

|            |          |                                                                                                                                                                                                                                                                                         |              |
|------------|----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| DESIGN     | 92       | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                               |              |
| DRAWN      | 92       | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                             |              |
| CHECKED    | B        | DRAWING NO.                                                                                                                                                                                                                                                                             | REV. A       |
| MFG. APPR. | N/A      | DSI 9511                                                                                                                                                                                                                                                                                | SHEET 2 OF 6 |
| APPROVED   | 140      | TITLE                                                                                                                                                                                                                                                                                   | SCALE        |
| DE APPR.   | 14       | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                               | NTS          |
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# PARTS LIST

TABLE 2

| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number  | Description                                               |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|-----------------------------------------------------------|
| X           |             |             |             |             |             | D412-702-341 | Dart 13-Man 3-Point<br>Shoulder Harness Kit               |
|             | X           |             |             |             |             | D412-702-343 | Dart 5-Man 3-Point Forward Facing<br>Shoulder Harness Kit |
|             |             | X           |             |             |             | D412-702-345 | Dart 4-Man 3-Point Aft Facing<br>Shoulder Harness Kit     |
|             |             |             | X           |             |             | D412-702-347 | Dart 4-Man 3-Point Side Facing<br>Shoulder Harness Kit    |
|             |             |             |             | X           |             | D412-702-349 | Dart 1-Man 3-Point Forward<br>Shoulder Harness Kit        |
|             |             |             |             |             | X           | D412-702-351 | Dart 1-Man 3-Point<br>Shoulder Harness Kit                |
| 1           | 1           |             | 1           | 1           |             | D412-702-059 | GROMMET KIT                                               |
| 9           | 5           |             | 4           | 1           | 1           | D3761-1-041  | HOOK AND LOOP STRIP (DSI 9408)                            |
| 2           | 1           |             | 1           |             |             | D412-702-301 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-7      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 2           | 1           |             | 1           |             |             | D412-702-303 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             | 1*          |             |             | D3573-8      | ADAPTER                                                   |
| 1*          | 1*          |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             | 4*          |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             | 4*          |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             | 4*          |             |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             | 1           |             | D412-702-305 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             | 1*          |             | D3573-1      | ADAPTER                                                   |
| 1*          | 1*          |             |             | 1*          |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             | 4*          |             | MS24693S273  | SCREW                                                     |
| 4*          | 4*          |             |             | 4*          |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             | 4*          |             | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             | 1           | D412-702-307 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             | 1*          | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             | 1*          | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             | 4*          | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             | 4*          | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             | 4*          | MS21042L3    | NUT                                                       |
| 1           | 1           |             |             |             |             | D412-702-309 | HARNESS ASSEMBLY (NEW)                                    |
| 1*          | 1*          |             |             |             |             | D3573-3      | ADAPTER                                                   |
| 1*          | 1*          |             |             |             |             | D4088-041    | SHOULDER HARNESS (NEW)                                    |
| 4*          | 4*          |             |             |             |             | MS24693S272  | SCREW                                                     |
| 4*          | 4*          |             |             |             |             | AN960JD10LL  | WASHER                                                    |
| 4*          | 4*          |             |             |             |             | MS21042L3    | NUT                                                       |

\* denotes that part is included in assembly above

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CANADA  
DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

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BY:   
D. SHEPHERD (DE # 02)

DATE: 10.03.22  
CERT. NO.: SH04-7  
ISSUE NO.: 3

|            |                                                                                     |                                                                                                                                                                                                                                                                                        |              |
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| DESIGN     |  | <b>DART AEROSPACE LTD</b>                                                                                                                                                                                                                                                              |              |
| DRAWN      |  | HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                                            |              |
| CHECKED    |  | DRAWING NO.                                                                                                                                                                                                                                                                            | REV. A       |
| MFG. APPR. | N/A                                                                                 | DSI 9511                                                                                                                                                                                                                                                                               | SHEET 3 OF 6 |
| APPROVED   |  | TITLE                                                                                                                                                                                                                                                                                  | SCALE        |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                              | NTS          |
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| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number  | Description            |
|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------------------|
| 1           |             | 1           |             |             |             | D412-702-311 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-1      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | SCREW                  |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-313 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-2      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | SCREW                  |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             |             | 1           |             |             | D412-702-315 | HARNESS ASSEMBLY (NEW) |
| 1*          |             |             | 1*          |             |             | D3573-5      | ADAPTER                |
| 1*          |             |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW) |
| 4*          |             |             | 4*          |             |             | MS24693S272  | SCREW                  |
| 4*          |             |             | 4*          |             |             | AN960JD10LL  | WASHER                 |
| 4*          |             |             | 4*          |             |             | MS21042L3    | NUT                    |
| 1           |             |             | 1           |             |             | D412-702-317 | HARNESS ASSEMBLY (NEW) |
| 1*          |             |             | 1*          |             |             | D3573-5      | ADAPTER                |
| 1*          |             |             | 1*          |             |             | D4088-041    | SHOULDER HARNESS (NEW) |
| 4*          |             |             | 4*          |             |             | MS24693S272  | SCREW                  |
| 4*          |             |             | 4*          |             |             | AN960JD10LL  | WASHER                 |
| 4*          |             |             | 4*          |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-321 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-3      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | BOLT                   |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |
| 1           |             | 1           |             |             |             | D412-702-323 | HARNESS ASSEMBLY (NEW) |
| 1*          |             | 1*          |             |             |             | D3570-4      | BRACKET                |
| 1*          |             | 1*          |             |             |             | D4088-043    | SHOULDER HARNESS (NEW) |
| 4*          |             | 4*          |             |             |             | MS24694S50   | BOLT                   |
| 4*          |             | 4*          |             |             |             | AN960JD10L   | WASHER                 |
| 4*          |             | 4*          |             |             |             | MS21042L3    | NUT                    |

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DEPARTMENT OF TRANSPORT  
AIRCRAFT CERTIFICATION  
BRANCH  
DAO # 01-O-01

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|            |                                                                                     |                                                                                                                                                                                                                                                                                                  |              |
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| DESIGN     |  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                         |              |
| DRAWN      |  |                                                                                                                                                                                                                                                                                                  |              |
| CHECKED    |  | DRAWING NO.                                                                                                                                                                                                                                                                                      | REV. A       |
| MFG. APPR. | N/A                                                                                 | DSI 9511                                                                                                                                                                                                                                                                                         | SHEET 4 OF 6 |
| APPROVED   |  | TITLE                                                                                                                                                                                                                                                                                            | SCALE        |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                                        | NTS          |
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| QTY<br>-341 | QTY<br>-343 | QTY<br>-345 | QTY<br>-347 | QTY<br>-349 | QTY<br>-351 | Part Number | Description     |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----------------|
| 2           | 2           |             |             |             |             | D3542-1     | BRACKET         |
| 7           | 3           |             | 4           | 1           |             | D3571-1     | GUIDE           |
| 2           | 2           |             |             |             |             | D3571-3     | GUIDE           |
| 2           |             | 2           |             |             |             | D3572-041   | GUIDE ASSEMBLY  |
| 12          | 6           |             | 6           | 2           |             | D3578-041   | DOUBLER         |
| 2           | 2           |             |             |             |             | D3610-041   | BRACKET         |
| 2           | 2           |             |             |             |             | D3618-1     | CAP             |
| 4           | 4           |             |             |             |             | AN4-10A     | BOLT            |
| 2           |             | 2           |             |             |             | AN4-16A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-25A     | BOLT            |
| 4           |             | 4           |             |             |             | AN4-27A     | BOLT (DSI 9469) |
| 2           | 2           |             |             |             |             | AN4-44A     | BOLT            |
| 2           | 2           |             |             |             |             | MS24693S274 | SCREW           |
| 3           | 3           |             |             | 1           |             | MS24694S56  | SCREW           |
| 10          | 2           |             | 8           |             |             | MS24694S58  | SCREW           |
| 1           | 1           |             |             | 1           |             | MS24694S60  | SCREW           |
| 26          | 6           | 20          |             |             |             | AN960JD416  | WASHER          |
| 4           | 4           |             |             |             |             | AN960JD416L | WASHER          |
| 12          | 6           | 6           |             |             |             | MS21042L4   | NUT             |
| 24          | 12          |             | 12          | 4           |             | CR3212-4-4  | RIVET           |

CANADA  
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| DESIGN     |  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                |
| DRAWN      |  |                                                                                                                                                                                                                                                                                         |
| CHECKED    |  | DRAWING NO. REV. A                                                                                                                                                                                                                                                                      |
| MFG. APPR. | N/A                                                                                 | DSI 9511 SHEET 5 OF 6                                                                                                                                                                                                                                                                   |
| APPROVED   |  | TITLE SCALE                                                                                                                                                                                                                                                                             |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS NTS                                                                                                                                                                                                                                                           |
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TABLE 3

| QTY<br>-337 | QTY<br>-353 | Part Number  | Description                                                              |
|-------------|-------------|--------------|--------------------------------------------------------------------------|
| X           |             | D214-702-337 | Dart 5-Man 3 Point Aft Facing<br>Shoulder Harness Kit, for 214 Aircraft  |
|             | X           | D205-702-353 | Dart 4-Man 3 Point Aft Facing<br>Shoulder Harness Kit, for UH-1 Aircraft |
| 1           | 2           | D412-702-311 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           | 2           | D412-702-313 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-321 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-323 | HARNESS ASSEMBLY (NEW) --> SEE TABLE 2                                   |
| 1           |             | D412-702-319 | HARNESS ASSEMBLY (NEW)                                                   |
| 1*          |             | D3925-041    | BRACKET                                                                  |
| 1*          |             | D4088-043    | SHOULDER HARNESS ASSEMBLY (NEW)                                          |
| 4*          |             | MS24694S50   | BOLT                                                                     |
| 4*          |             | AN960JD10L   | WASHER                                                                   |
| 4*          |             | MS21042L3    | NUT                                                                      |
|             | 1           | D3572-043    | GUIDE ASSY                                                               |
|             | 1           | D3572-044    | GUIDE ASSY                                                               |
| 1           |             | D3920-041    | SEATBELT GUIDE ASSEMBLY                                                  |
| 2           |             | D3920-5      | SEATBELT GUIDE                                                           |
| 1           | 6           | AN4-16A      | BOLT                                                                     |
| 1           |             | AN4-21A      | BOLT                                                                     |
| 7           |             | AN4-25A      | BOLT                                                                     |
| 18          | 12          | AN960JD416   | WASHER                                                                   |
| 9           | 6           | MS21042L4    | NUT                                                                      |

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| DESIGN     | 90                                                                                  | <b>DART AEROSPACE LTD</b><br>HAWKESBURY, ONTARIO, CANADA                                                                                                                                                                                                                                |              |
| DRAWN      | 97                                                                                  |                                                                                                                                                                                                                                                                                         |              |
| CHECKED    | J                                                                                   | DRAWING NO.                                                                                                                                                                                                                                                                             | REV. A       |
| MFG. APPR. | N/A                                                                                 | DSI 9511                                                                                                                                                                                                                                                                                | SHEET 6 OF 6 |
| APPROVED   | 149                                                                                 | TITLE                                                                                                                                                                                                                                                                                   | SCALE        |
| DE APPR.   |  | NEW SHOULDER HARNESS KITS                                                                                                                                                                                                                                                               | NTS          |
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